Original/Duplicate/Triplicate

BRUHATH BANGALORE MAHANAGARA PALIKE

DASARAHALLI ELECTRICAL DIVISION

MEASUREMENT BOOK

Name of work: :-Annual maintenance of street lights Package - D 2 in Shettyhalli surrounding area ward no 12

Job Code No:-012-22-000005

Agreement No:EE/Ele/DZ/TEND/AGR/000010/2022-23 Date:31.03.2022

Reference to Supplementatry Agreement No: EE/Ele/DZ/TEND/SAG/22/22-23 Date:24.03.2023

Ref no and Date of commencement of work:-:-EE/(Elec)/DZ/TEND/WO/000002/2022-23 Date:04-04-2022

Reference to Supplementatry Work order No:- EE/Ele/DZ/TEND/SWO/28/22--23 Date:24.03.2023

Estimate Amount:Rs. 2900000.00

Administartive Sanction No:EE/(Elec)/DZ/TEND/AS/11/2021-22 Date:21-03-2022

Technical Sanction No:EE/(Elec)/DZ/TEND/TS/128/2021-22 Date:06-01-2022

Name of Contractror of nature of Agency:- M/s. CHETHAN ELECTRICALS

Measurement Book No: 6898 **Page No:** 689742 to 9474 **date:** 04/8/2023

Bill NO :- RA Bill Bill Period :-

Sl. No.	Description	Unit	Period 1 Month	Present Measurements			
				Qty	Tender Full Rate for 1 year	Rate/ Month	Cost
1	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed below. 36/40 W fluorescent tube light street lighting system.	Each	1	20	685.45	57.12	1142.40
	No of complaints attended for the period of 01.07.2023 TO 31.07.2023						
2	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed below. 125W HPMV Park lighting system.	Nos	1	68	756.29	63.02	4285.36
	No of complaints attended for the period of 01.07.2023 TO 31.07.2023						
3	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed belowPoles with 250W HPSV street lighting system.	Each	1	1884	1019.4	84.95	160045.8

EE (Ele) DZ

Assistant Engineer (Ele)
Bruhath Bengaluru Mahanagara Palike

ASST. EXECUTIVE ENGINEER (Ele)

Scanned with OKEN Scanner

	No of complaints attended for the period of 01.07.2023 TO 31.07.2023						
4	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed below 400 watts HPSV street light /High mast lighting system.	Each	1	132	1118.1	93.17	12298.44
	No of complaints attended for the period of 01.07.2023 TO 31.07.2023						
5	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 24 Watt to 40 Watt LED Park/ street lighting system.	Each	1	5	880.01	73.33	366.65
	No of complaints attended for the period of 01.07.2023 TO 31.07.2023						
6	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 40 Watt to 65 W LED street Light lighting system.	Each	1	182	1147.4	95.61	17401.02
	No of complaints attended for the period of 01.07.2023 TO 31.07.2023						
7	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 90W LED street light lighting system.	Each	1	55	1377.7	114.80	6314.00
	No of complaints attended for the period of 01.07.2023 TO 31.07.2023						

Assistant Engineer (Ele)
Bruhath Bengaluru Mahanagara Palike
Dasarahalli Zone, Bengaluru

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalo... ...ara Palike
Dasarahalli Zone, Bangalore

8	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for110/120 watt LED street light lighting system	Nos	1	0	1575.5	131.29	0
	No of complaints attended for the period of 01.06.2023 TO 30.06.2023						
9	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 150/180 watt LED street light /High mast lighting system.	Nos	1	0	1871.5	155.96	0
	No of complaints attended for the period of 01.07.2023 TO 31.07.2023						
10	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility.300mmx450mmx214mm	Each	1	0	5127	5127.00	0
11	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947 100 to 125Amps	Each	1	0	7200	7200.00	0
12	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.50-63 Amps SP	Each	1	0	723	723.00	0
13	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.	Each	1	0	4030	4030.00	0
14	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments.6 sqmm	Mtr	1	0	70	70.00	0
15	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.6 sqmm	Each	1	0	7	7.00	0
	Sub Total						**201853.67**
	Add GST 18%			-12%	24222		177631.23

Assistant Engineer (Ele)

ASST. EXECUTIVE ENGINEER (Ele)

Scanned with OKEN Scanner

	Total			18%	31974		209604.85
	Add GST18% on item no10 to 15			18%	0	0.00	**0.00**
							209604.85
	Fine imposed for non burning of street lights For the period of 01.07.2023 TO 31.07.2023						1800.00
	As per street light agreement clause 2 % will be deducted in monthly maintenance bill against the released scrap material						4192.10
	GRAND TOTAL						203612.75

CERTIFICATE

1.This is to certify that the work done is saticefactorily.

2.This is to certify that the bill amount calimed in this bill does not claimed in any of the previous bill.

ASST. EXECUTIVE ENGINEER (ELE)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

Assistant Engineer(Elec)
Dasarahalli Division

Asst.Exe.Engineer(Elec)
Dasrahalli Division

Executive Engineer (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone

Scanned with OKEN Scanner